

# FOLIO

University of Alberta

28 September 1989

## Synthetic Peptides Inc developing anti-bleeding compound; University now shareholder

Biochemists with Synthetic Peptides Incorporated (SPI) are on the verge of developing an anti-bleeding compound that they hope will have substantial commercial potential.

"We estimate that the initial market could be anywhere starting from \$250 million and I feel that's a conservative estimate," says Robert Parker, SPI Vice-President and University of Alberta research associate.

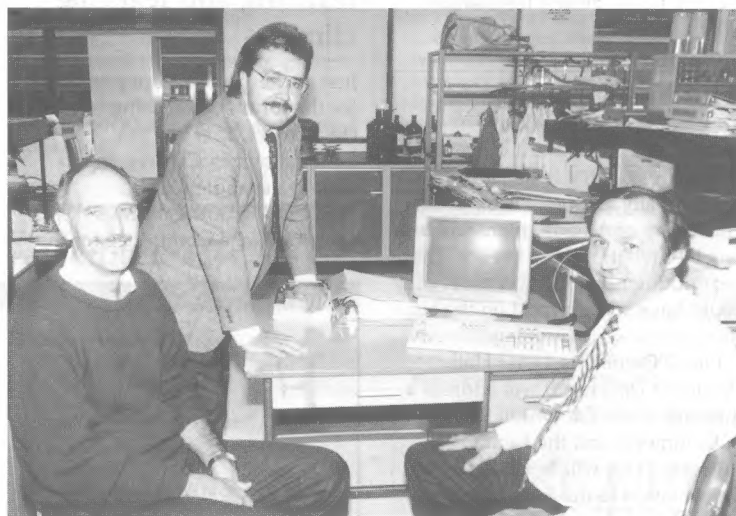
"There's no product now on the market for an anti-bleeding compound, so there's no real way of estimating what the market is, but what we have done is estimated the number of major surgeries in North America and Europe and used that as a basis for initial revenue projections," he said last Thursday.

The company, established in 1986 and led by U of A professor Robert Hodges, one of the top biochemists on the continent studying peptide synthesis, now needs more money to keep the research going.

"We're at the stage now where we need to do a lot more research and animal testing, and to be able to do that requires another infusion of funding," says Dr Parker.

Once the funding is secured, however, the researchers hope to have a marketable pharmaceutical within three to five years—a remarkably short time. Dr Parker explained that pharmaceuticals used, for example, to treat high blood pressure require "years and years before they're approved for use.

"In our case we have a compound that's only going to be used once during or before surgery, so the requirement for clinical trials is probably going to be a lot less," he said.



Research scientist Paul Cachia (left), Vice-president, Robert Parker (centre) and SPI President Robert Hodges are hopeful their University-based peptide and protein research will result in commercial products.

SPI senior researcher Paul Cachia said the compound, which essentially cuts down on blood loss during major surgery, is of interest to major pharmaceutical companies in the United States and Europe. One of the reasons for that interest is that using the compound would result in a lesser reliance on blood transfusions and, therefore, would lessen the chances of contracting diseases through contaminated blood. Cachia, also a research associate with the U of A, said in the case of major transplants the body's immune system is "wide open", but using the drug would lessen the chances of patients being attacked by viruses.

The company received a major shot in the arm last week when it reached an agreement with the University. The U of A has become a shareholder in SPI and the company and University have signed a long-term technology transfer

agreement to commercialize the University-based research in peptides and proteins. Should SPI make money, the University will receive a percentage of the royalties. In return, the University charges rent and allows SPI researchers access to millions of dollars worth of equipment the researchers would otherwise be unable to purchase themselves. As well, Capital Markets West Inc, an Alberta-based venture capital firm, has become a shareholder.

Dr Parker said it is definitely a high-risk venture and will require a lot of money to keep it going, but there is also a potential high return.

The researchers are also confident that they're ahead of the pack. "There are few if any people working on this specific project . . . and we feel we have a good jump on other people," Dr Parker

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## Share the EXCITEMENT SOYEZ DE LA FÊTE

Twelve days and counting.

Presidential Installation Week starts on 10 October. There are a number of scholarly events to look for in the five-day program that is supported financially by the Alma Mater Fund. Speakers, for example, include Norman Ball, Keith Ewing and Fraser Mustard, and Brian Nielsen (Physical Education and Sport Studies), Lois Stanford (Linguistics) and Franco Pasutto (Pharmacy) will participate in a forum on teaching.

### Fraser Mustard to speak on universities and economic growth

Fraser Mustard, a PhD and MD who did research in blood platelets, has become Canada's strongest proponent of the vital role of scholarly research. To further his visionary quest, he founded the Canadian Institute for Advanced Research.

Joining us for Share the Excitement activities, Dr Mustard will talk at 8 pm, 12 October, in L-1 Humanities Centre on "Universities and Our Economic Future: Trading Nation or Fading Nation." Dr Mustard is convinced that understanding the process of innovation is essential for the development of sound economic policies.

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## 'Share the Excitement'

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### Ball to give lecture on Canadian engineering

Norman Ball, holder of the Northern Telecom Chair in Engineering Impact at the University of Waterloo, will present a guest lecture on 10 October.

Dr Ball, also an adjunct professor at the University of Alberta, will be speaking on "Where is Canadian Engineering?" The lecture will take place in the Myer Horowitz Theatre from 4 to 6 pm.

FD Otto, Dean of the Faculty of Engineering, says Dr Ball is an "engaging speaker" and the "foremost historian in Canada on the subject of science and technology as it relates to its place in the development of our country from coast to coast."

Dr Ball's lecture is tied to the welcoming of President Davenport that will be expressed by the Faculty, the Association of Professional Engineers, Geologists and Geophysicists of Alberta and Alberta Government Telephones. Members of the engineering profession and science teachers from Edmonton's secondary school system will also be present.

### Weir Memorial Lecture to be given by Ewing

The Faculty of Law's annual Weir Memorial Lecture will be given this year in conjunction with

Presidential Installation Week by Keith Ewing, who has been recently appointed as Professor of Public Law at King's College, London.

Prior to his appointment, Dr Ewing was a Fellow and tutor of Trinity Hall, Cambridge, and a lecturer at Cambridge University. During the 1987-88 academic year, Dr Ewing was a visiting professor of law at the University of Alberta.

The title of his lecture is "Economics and Labour Law: Thatcher's Radical Experiment." It will be delivered 12 October at 1 pm in 237 Law Centre.

The Faculty will also conduct its popular "Saturday Morning at the Law School" program 14 October, 9 am to noon, during Installation Week.

### The business side of Installation Week

While Presidential Installation Week is essentially an open house at the University of Alberta, there will be a few by-invitation-only events. These bear noting because, over time, they could have some impact on the big picture.

On 10 October in Lister Hall, President Davenport will address a meeting of the Edmonton Chamber of Commerce and the Faculty of Business. This will be his first presentation to the Edmonton business community.

That evening, the Faculty of Education will exchange views with school principals and

superintendents.

On 12 October, President Davenport and the University will host a meeting of the Council of Western Canadian University Presidents (COWCUP).

The Academy of Kaplan Laureates, that is, all recipients of the J Gordin Kaplan Award for Excellence in Research (formerly the University of Alberta Research Prize), will hold its inaugural meeting at University House on the evening of 12 October. President Davenport and Fraser Mustard are the guests of honor.

### Forum aims to enhance teaching and learning climates

Just as the panelists are preparing for the forum on teaching (13 October, 3:30 to 5 pm, L-1 Humanities Centre), so too should the audience.

The intent of the forum's sponsors—the Committee for the

Improvement of Teaching and Learning and the Office of Public Affairs—is to stimulate discussion and reflection in the members of the audience. It's an opportunity for people to voice their ideas and concerns about teaching and learning at this University.

Panelists Brian Nielsen, Lois Stanford and Franco Pasutto will present brief case studies that reflect three different and individualistic approaches to change which would result in improved teaching and learning climates. The case studies are titled "The Knapper Report: One Faculty's Response" (Dr Nielsen), "Teaching Innovation, or What I Learned When I Tried to be Clever" (Dr Stanford), and "Undergraduate/Graduate Teaching: Encouraging the Research/Teaching Link" (Dr Pasutto).

The forum's title is "Teaching: The Dynamic Link Between Raw Materials and Finished Product."

President Davenport will act as master of ceremonies. □

### SPI — *continued from page one*

said, adding that Dr Hodges is "the leader in Canada in peptide synthesis and one of the top people in North America—I don't think there's any question about that."

SPI also has the assistance of Torontonian Jerry McElroy as Vice-President of Corporate Affairs. McElroy, with 15 to 20 years' experience in marketing, is "essentially our roots in the pharmaceutical industry," says Cachia.

As well as designing and manufacturing peptide pharmaceuticals, the company also conducts research and development into new pharmaceuticals, develops related computer software and does contract research. These days, however, the company's major research thrust is on the investigation of alternatives to blood transfusions.

The company's success is no accident; the University is home to

the Alberta Peptide Institute. Moreover, the Department of Biochemistry is known nationally and internationally for its contributions to the understanding of structure-function relationships of peptides and proteins.

Peptides and proteins are found in biological tissues and serve as messengers and components in living systems. Each protein or peptide has amino acid sequences; exposed peptide/protein surfaces interact with other molecules to form structures or they interact with receptors to produce various biological actions.

In this case, the researchers are starting with a naturally-occurring peptide which they hope to be able to change to enhance its anti-bleeding properties. "If we can do that," says Dr Parker, "we have a new patentable, pharmaceutical product." □

## FOLIO

*Volume Twenty-six  
Number eight*

Office of Public Affairs  
423 Athabasca Hall  
University of Alberta  
Edmonton, Alberta T6G 2E8  
(403) 492-2325

MTS - TJMH  
PROFS - ZZOPA  
FAX - 492-2997

*All enquiries and  
correspondence should be  
directed to:*

Ron Thomas  
Editor

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



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ISSN 0015-5764  
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## Killam Professor David Schindler embarks on career change

After 22 years with the Federal Department of Fisheries and Oceans, recently appointed Killam Professor David Schindler decided it was time to make a career change.

The 49-year-old Dr Schindler told *Folio* last week, "The attraction of coming here [to the University of Alberta] was the large number of people who work in boreal forests, wetlands and lakes."

The former adjunct professor of Botany and Zoology at the University of Manitoba says he had also met various people here and "it looked as though the potential for multidisciplinary studies, which are what I generally like to do, was very good."

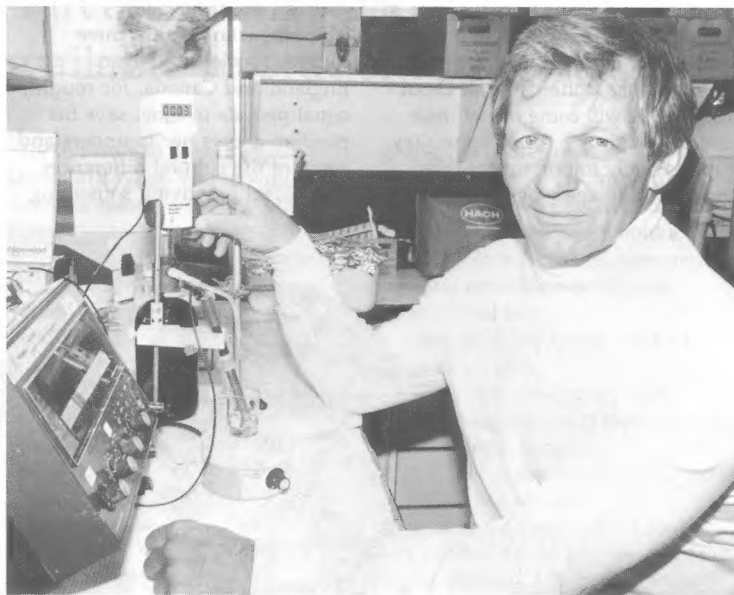
Dr Schindler, one of the continent's foremost limnologists, also had philosophical motivations for ultimately deciding to accept the prestigious Killam Chair. "I found myself disagreeing more and more frequently with the policies of federal departments on environmental matters, where they wanted to inject a political component that I didn't feel I should be party to as an environmental scientist."

Before Dr Schindler had even gotten his feet wet in Alberta lakes, he was asked to serve as one of two federal representatives on the Alberta Pacific (ALPAC) Review Board. Dr Schindler doesn't believe the Board's mandate to consider the development of a pulp mill 50 kilometres downstream from the Town of Athabasca to be a perfect one. "I do think it's a step in the right direction. I'd like the panel to take a little longer term look at this development and a little broader look than panels have in the past," he says, adding that the exercise may prove to be an important one for the province and the country.

Asked whether he was concerned about the development of pulp mills in the province, Dr Schindler, who has studied the impact of acid rain on Canadian lakes, says he objects to the continuing reliance on bleached paper. "I use it as little as possible, yet I find that alternatives are not readily available in Canada."

"In that respect, I'm concerned that given the way environmental awareness is going, bleached craft mills may not be a good long-term investment regardless of how well they're controlled," he says, noting that the mills unload massive quantities of organic materials in rivers.

Dr Schindler feels his participation



Killam Chair holder David Schindler settles into his new U of A home.

on the panel is important. "I've had a long-standing interest in applying ecological science to important economic and human problems . . . I've managed to walk the line between applied and pure research and do some reasonably good work on both sides," he says. Indeed, in the late 1970s and early '80s Dr Schindler published a number of articles on the ecological impact of acidic precipitation on Canadian lakes and became one of the country's leading authorities on the problem.

Now Dr Schindler wants to turn his energies to two areas of research he believes haven't received enough attention: alpine and subalpine lakes and large arctic and subarctic lake systems. "I thought it would be in the best interests of the province and the

University, because there's very little known about those systems," he says, acknowledging the excellent work his colleague Ellie Prepas is already doing on prairie and boreal fringe lakes.

"We're delighted we were able to attract him here," says Faculty of Science Dean John McDonald. "He's well known internationally and the number of awards he's received attests to the fact that he's highly respected by his colleagues." Dr McDonald says Dr Schindler's approach is very broad based and he should provide outstanding leadership on northern ecological research.

Dr Schindler says he hopes to become involved in graduate teaching, will be team teaching a

course next term and wants to develop some courses involving more than one department. He lauds U of A scholars for their willingness to form "cross linkages" and says, "I think that's a healthy thing given the sort of eco-system level approach that scientists are asked to do."

Dr Schindler, who holds a DPhil from Oxford University and effective 1 July has a tenure position jointly in the Departments of Botany and Zoology, says, "I don't like the trend I see in natural science departments towards high tech, computers and fancy instruments at the total disregard for taxonomic and biological studies. There's a need for both."

While it may seem life for the prolific writer is all work and no play, such is not the case. He and his wife, Suzanne Bayley, who holds an appointment in the Department of Botany, have decided to live in Wildwood where they can more adequately care for their racing sled dogs.

He laments the move away from the Mecca of sled dog racing, the Manitoba-Minnesota area, but realizes they are now closer to other circuits in Alaska, Yukon and Northwest Territories.

The soft-spoken father of three may not race as much; however, he does have two unwritten books floating around in his head: one on the ecology of boreal watersheds and another on the limnology of boreal lakes.

Meanwhile, Dr Schindler wants to "grow slowly" and he wants to "ferret out those things that show the most promise" rather than overextending himself with too many commitments. □

## Change to Human Resource Development Fund advantageous to individual employees

The recent Board of Governors-NASA Agreement carries a significant change in the Human Resource Development Fund (HRDF) spending. Article 45 now states: "The cost of University-required training shall not be chargeable to the Human Resource Development Fund."

This new clause clearly establishes the original intent of the HRDF to support individuals in career and job-related development, says Roger Dugas, manager, Training and Development.

Department-required training will no longer be funded by the HRDF. In the past the HRDF was often treated as a departmental training budget. It was used for such things as training staff on computer software required for the job, new work methods required by the department and other activities clearly required by the department; training that, properly, should have been a departmental expense.

With the new agreement, staff will now have more discretion and control

over their career development training and education, Dugas says. Training in job-related skills for anticipated promotional opportunities may also be funded, at the discretion of the Director of Personnel.

The Training and Development Unit is available for advice, consultation and questions. Call 492-4660 or 492-0726.

**Note: The 1989-90 Human Resource Development Fund has now been fully committed; there is no money available until 1 April 1990.** □

## International Centre receptionist good will ambassador

Ask International Centre receptionist Audrey Smith whether she feels as if she is on the front lines, and she responds, "Yes, definitely!"

"Here we probably touch more parts of the world than any other office on campus," says the U of A

graduate in English with a minor in Classics.

"A great deal of what international students think about the U of A will come out of their dealings with this office," she says, "so it's really important that they get a good image when they walk

through the front door."

Smith, who lived in three different societies, Guyana, England and Canada, for roughly equal periods of time, says her position allows her to understand some of the cultural differences "and I feel I'm giving something

back also."

"When I came I didn't know anything about the International Centre; it had actually just started," she explains about her own arrival on campus several years ago. "I remember feeling totally confused, totally lost and feeling so miserable. So when they [international students] come in, it feels good for me to be able to say 'Hi, welcome to Edmonton; what can I do for you.'"

Smith, a self-proclaimed "jack of all trades", who handles queries, books appointments and advises students, says her job requires a great deal of patience. She says, "It's really important to listen to what they are saying and not to overlay what they're saying with what you think they're saying." That may require Smith to spend a seemingly inordinate amount of time with one student, but, she says, if you don't do that, half completed jobs "will come back to haunt you."

Smith, who convoked this year and hopes to pursue a career in international law, says she took the job "primarily because I have an interest in international affairs."

"It's certainly given me an idea of just how small the world is becoming," she says, referring to one of the Centre's noon-hour programs, Passport to the World, as an excellent "way of finding out what doesn't come out in the papers."

Her contacts with international students for a year and one-half have also given her a greater appreciation of "just what kind of struggles they're going through." Not only do students from the developing countries have to deal with their own nations' problems, they also have to deal with their feelings of isolation here in their place of study, Smith explains, adding that many students from abroad find Canadians to be somewhat reserved.

Thankfully, however, international students have a friend in Audrey Smith, who has experienced the same sorts of feelings during her adaptation to Canadian society. Smith, who describes herself as a "very international person," has even begun to receive gifts from some of the Centre's clients. Sounds like front-line diplomacy is paying off for Smith, the Centre, international students and the University. □



Audrey Smith considers herself to be an "international person."

## Symposium will consider the impact of science and technology on society

From 5 to 7 October, the Royal Society of Canada will sponsor an international symposium, organized by Nico Stehr (Sociology) and Richard V. Ericson of the University of Toronto. "Knowledge Societies: The Impact of Science and Technology on Society," will be held in the Stollery Centre, Business Building.

Participants include: Zygmunt Bauman, University of Leeds, "Life and expertise"; Gernot Böhme, Technische Universität Darmstadt, "The technostucture of society"; Alberto Cambrosio and Camille Limoges, Université du Québec à Montréal, "The controversies over the environmental release of

genetically engineered organisms"; William Dunn, University of Pittsburgh, "Governing the knowledge system of post-industrial society"; SN Eisenstadt, Hebrew University, "Transformation of class structure and of social movements in post-modern nation societies"; Paul Heyer, Simon Fraser University, "The state of knowledge in early states"; Magall Sarfatti Larson, Temple University, "Knowledge and architecture"; Christoph Lau, Universität Bamberg, "Social conflicts on the definition of risks"; William Leiss, Simon Fraser University, "The idols of technology"; Michel Maffesoli, Sorbonne, "Connaissance savante et connaissance populaire";

Robert Menzies, Simon Fraser University, "The commodification of psychiatric knowledge in criminal settings"; Kim Scheppelle, University of Michigan, "Knowledge and Secrecy"; Uwe Schimank, Max-Planck-Institut für Gesellschaftsforschung, Cologne, "Science as a societal risk producer".

To obtain a detailed program and to register for this conference, telephone 492-5234. To pay, send a cheque made out to the University of Alberta to Mrs Laura Hargrave, Department of Sociology. In-person registration will be from 8:30 to 9:30 am, 5 October, in the Stollery Centre. □



# Long Range Development Plan for the Faculté Saint-Jean

In 1911, the Oblate Fathers erected the Juniorat Saint-Jean north of Bayhyte Avenue on what is now 91 Street. Over decades this institution prospered and grew. In 1970, it became affiliated with the University of Alberta as College Universitaire Saint-Jean. The University then acquired the 6.216 hectare campus in 1976, and in 1978 the institution became the bilingual Faculté Saint-Jean.

The Faculté has experienced a major increase in enrollment in the past decade and has outgrown its present facilities. With large enrollment increases forecast to continue, the decision was made in 1986 to prepare a Long Range Development Plan for the campus.

The resulting study established that space deficiencies do now or will exist in all functional categories of facilities, with the most acute being the library, large lecture halls, student services and the recreation and drama facilities. The latter has been deficient since the conversion of the original theatre into a much needed lecture hall last year.

A student residence is contained in the original building, which dates back to 1911. It is in need of major renovation or replacement. The Faculté is committed to the continued provision of a student residence on campus, ideally to accommodate 125 students instead of the present 78. However, there is presently no commitment on the part of Housing and Food Services with regard to this building or its replacement. This is an issue that will ultimately have to be resolved. In the meantime, the position taken in the campus plan was maintenance of as much flexibility as possible. Therefore, a residence was designated in the present location, which would allow the present one to be renovated and even expanded or replaced.

With regard to the other facilities, a resolution of the severe crowding of the library is proposed with its relocation to the existing vacant cafeteria (see figure 1). Future expansion would be accommodated into the existing gymnasium, which does not meet recreation standards. (Phase II on figure 1). This will then also permit the option of integrating the existing resource library into the main library. Adjacent to the library, new student facilities are

proposed on an expanded lower level, with a new lecture theatre and faculty offices above.

To the southwest of the existing facilities, a new regulation recreation facility would be erected, with a drama centre adjacent and linked to it. The recreation complex could interface well with the playing fields to the west. The drama centre would be exposed to 84 Avenue, to give it an appropriate public profile to the outside community.

The drama centre is also proposed to sit on axis with the formal main entrance to the student residence (see figure 2). With the drama and recreation facilities positioned this way, a central quadrangle is created across which people could wander from one facility to another and in which they could lounge. This outdoor

space would thus give the campus a focus that it currently lacks. It would be south oriented and enjoy a favorable microclimate. Due to a fall in the grade that occurs across the site, it might also be developed as a natural amphitheatre, in the character of the main square in Siena, Italy. The new library and student centre would be positioned to align with the main axis of this quadrangle.

The "front door" of the campus and its street address would be retained on 91 Street. To avoid congestion at this entrance, much of the staff and student parking would be accessed from 84 and 86 Avenues. Driveways and parking would be kept to the perimeter of the campus to avoid conflict with pedestrians. A landscaped buffer would screen the parking from the predominantly

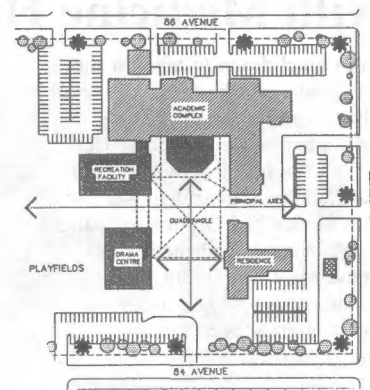


Figure 2

residential development adjacent to the campus. This perimeter landscape can also be utilized to provide a strong identity to the campus, through its development with a consistent and distinctive visual character. This can be further augmented with identity landmarks at campus corners and principal entrances.

Ultimately, the resolution of the current and future facility deficiencies of the Faculté Saint-Jean will depend on detailed resolution of programmatic needs and the timing of funding commitments. In the meantime, the Long Range Development Plan has established a clear direction for any planning aimed toward this end.

(Copies of the full report, prepared by Cory Cunningham Architect Ltd, are available for viewing at Design Development on the fourth floor of the General Services Building or at the Faculté Saint-Jean). □

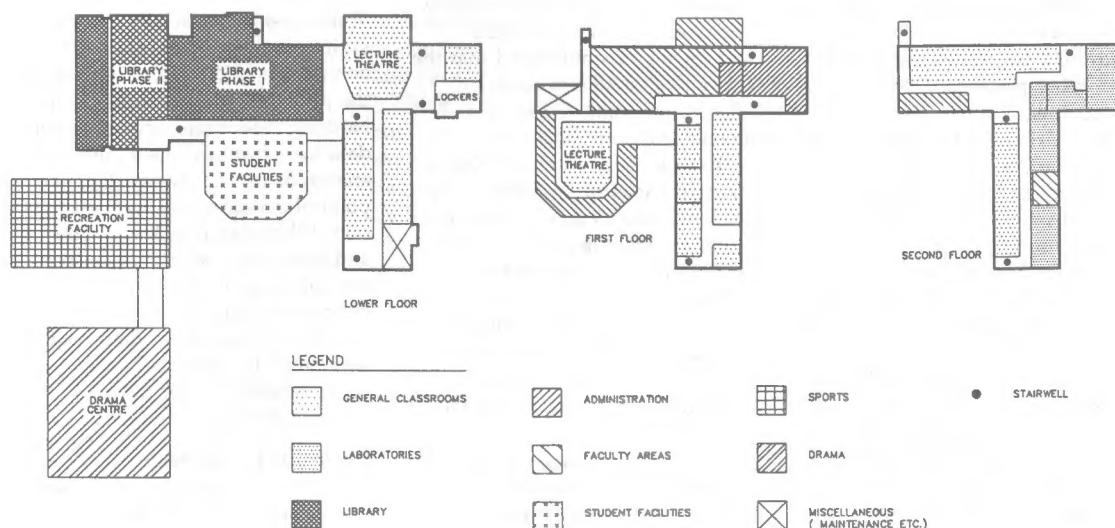


The main square in Siena, Italy.



Main entrance to the student residence.

Figure 1



## Room for improvement in University's relationship with Medicine Hat school system, Senate meeting told

From touchdown to take-off the University of Alberta Senate spent a busy and informative day (15 September) in Medicine Hat.

With the facilities of Medicine Hat College at their disposal and with Mayor Ted Grimm and other prominent residents acting as paragons of hospitality, Senators, as has happened at out-of-town meetings in Septembers past, conducted their business in a friendly environment and learned a few things about their surroundings. (Medicine Hat, it was pointed out during a visit to city hall, sits atop a vast pool of natural gas. When Rudyard Kipling visited the 'Hat he quickly proclaimed it "the city with all hell for a basement.")

Shortly after the meeting began Medicine Hat School District No 76 gave the University heck. President Harold Storlien, while commenting on the University's strong tradition of academic excellence, said the District's students, staff and Board of Trustees perceive that the U of A is "unfriendly" to the user or client. This perception, he said, is often described by examples of regulations and procedures that make it difficult for students to enroll in programs of choice or even make it difficult to obtain adequate, consistent information.

Other perceptions are:

- that the University is too inflexible in responding to client needs;
- that communication (advertising, information on Career Days) is an area that could be improved;
- that former students indicate that it has been difficult to transfer equivalent courses to the U of A from other postsecondary institutions.

Peter Caffaro, Chair of the recent Senate Task Force on the University and the North, said many of perceptions in the brief were the same as those encountered by the task force members who travelled the North. Speaking from experience, he said negative perceptions can often be cleared up if the client can be put in touch with the right person or can access the right channel.

Registrar Brian Silzer said that in 1988-89 there were 11 full-time students and three part-time

students who enrolled at the U of A directly from high school in Medicine Hat. An additional 26 students came to the University from Medicine Hat College.

"We [high school liaison staff] visit practically every high school in the province at least once a year and larger schools like those in Medicine Hat and Lethbridge more often," he said. The Registrar's Office never turns down an opportunity to participate in a Careers Day program, Silzer added.

If we have a communication problem, we must get to the root of it, he said. The District's representatives were asked to forward the specifics to him.

Wade Deisman, Vice-President (External) of the Students' Union, spoke of Student Orientation Services and Student Help and expressed hope that Dr Storlien and his colleagues would encourage students to make use of these services when they move to Edmonton.

John McDonald, Dean of the Faculty of Science, told the delegation that at their first lecture of the year, each professor is supposed to explain the GPA system. "Perhaps this isn't being done adequately. Please contact a dean or department chair . . . we can't fix something if we don't know the full problem."

### Adult literacy

Kathryn Chang, assistant director of community education at Medicine Hat College, presented a brief on behalf of the Alberta Association for Adult Literacy. She called on the research community to gather more data on adult literacy and recommended that the University of Alberta consider offering programs in the field of literacy and adult education.

"I know of no university that is taking the lead in this area . . . I challenge you to do so. There is, I think, an overwhelming opportunity for you to do so."

There is a crying need for professionals, Chang continued. "We can't expect volunteers to teach the adults just as we wouldn't expect volunteers to teach our children."

There are voluntary tutoring programs in communities throughout the province and these

people (primarily women) work under trying circumstances, Chang told the Senate. "They have no tenure, no security, no benefits. We have, in fact, created a women's ghetto."

Senator Maureen Payne suggested that the Senate strike a task force to investigate the issue, especially in view of 1990 being International Literacy Year.

Dennis Foth, Dean of the Faculty of Extension, told Chang that the Faculty will soon propose the establishment of a certificate program in adult and community education and that such a program would not be campus-based and would be accessible to all interested Albertans.

### Water: a common heritage

Listeners, especially those from Medicine Hat, a dryland area where, in Mayor Grimm's words, "every blade of grass is nurtured and sung to," were attentive to David Chanasyk's statement that water is a resource and must be treated as such. Of this "common heritage" he said Alberta has 62 percent of the irrigated area in Canada and that southern Alberta has about 15 percent of the total water supply in Alberta, and 80 percent of the total water demand.

Albertans, Dr Chanasyk said, are generally extremely blessed with good quality water but, much to his consternation, irrigation in the province has become something of a "Mason-Dixon line."

The director of the Water Resources Centre at the U of A, Dr Chanasyk was somewhat critical of university researchers in general, saying give "we each other hell behind closed doors but as soon as the public is involved . . . clamp! Nothing! Too often, once research data have been collected and analyzed, we simply say 'It's a political decision' and back off," he said. Whenever possible, scientists and researchers should have their say and be prominent in the decision-making, he contended.

Is the Oldman River dam really necessary? Dr Chanasyk was noncommittal, saying it's a wait-and-see type of situation.

### President's Report

President Davenport emphasized that Alberta's colleges have a vital

role to play in postsecondary education because they offer many things that universities don't. The days of an institution of higher learning going its own way are long gone, and Dr Davenport is all for a united front.

Enrollment of full-time students at the U of A as of 7 September was 24,939 (on the same date last year, it was 24,487). We've reached the point where accommodating more and more students means lowering the standards of education, Dr Davenport said. In particular, the numbers are creating "severe difficulties" for the Faculties of Education, Arts and Science, he continued. "The Deans and the Registrar are working overtime to try to slot students into classes that are overflowing."

Dean of Student Services Peter Miller pointed out that the rationale for all quotas at the U of A is the strain on facilities and resources, not the current and future employment picture.

Asked if the proposed nine percent goods and services tax would have an impact on the University of Alberta, Dr Davenport said yes and added that he was becoming apprehensive about the inevitable paper shuffling. There is some question as to whether the University is revenue neutral and Dr Davenport said "we won't know until well after the fact." It's not known if tuition fees will come under the GST, but Wade Deisman said textbooks will be taxed.

Senate was reminded that the election of a new Chancellor will take place in March 1990 (new legislation stipulates that a Chancellor may serve only one four-year term).

Chancellor Miller introduced the following new members of Senate: Arthur Denson, Bernie Keeler, Colin McDonald, Ben Steblecki, Roy Louis, Curt Vos, Brendon O'Neill, Marlene Cox-Bishop, Richard Chernuka, Wendy Olson and Heather Prentice.

Besides visiting City Hall (it was completed late in 1983 at a cost of more than \$20 million), Senate toured the Medalta Potteries Historic Site and attended a banquet which was hosted by the City of Medicine Hat and Medicine Hat College. □

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# The Senate Annual Report 1988-89

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University of Alberta  
Edmonton

## Chancellor's Report

As I write my report for 1988-89, I find it hard to believe that I now have less than a year to go before my term as Chancellor comes to an end. To say that I feel it has sped by would be a gross understatement, but I attribute that feeling to the fact that it has been such an enjoyable experience.

During the past year a good deal of my time, as well as the time of many others, was taken up with the quest for a new President to succeed Myer Horowitz. I note that in my last report I said that his would be a "tough act to follow", and I think the entire University family would echo that sentiment. Many dozens of hours were spent by the Presidential Search Committee, of which the Chancellor is automatically a member, in formulating our approach, screening potential candidates, conducting final short-list interviews and ultimately making the recommendations to the Board of Governors. I am delighted that I will have the opportunity of working closely with President Paul Davenport over the next several months and I wish him every success in his new challenge. At the same time, one cannot help feeling a sense of something missing at the U of A that was uniquely Myer Horowitz's contribution as our President over the last 10 years. Both at the Senate's farewell event for Myer and Barbara and at the many others I attended put on by so many other parts of our University family, the obvious respect and the love and affection which both enjoyed was expressed over and over again. All of us hope the Horowitzes will thoroughly enjoy Myer's year of administrative leave and that they will return in some meaningful capacity to our campus and our city.

Convocation times were again a highlight of your Chancellor's

activities. Because of the larger numbers involved, we had to expand the ceremonies from five to six days in the Spring of 1989, plus two special convocations for the Faculties of Medicine and Engineering to celebrate their 75th anniversary. Each day was very special to the graduands, their families and friends and, certainly, to me. Medical science has still not found a cure for "Chancellor's elbow", but I'm certain the patient will survive and live to shake again for at least eight more days.

The past year has been full of the usual Senate activities which are fully outlined in the Executive Officer's Report and I need not add any further details. On the personal involvement level, I was pleased to represent the University at many on and off campus functions, and to meet with newly appointed Deans as well as the newly elected executive committees of the major campus groupings.

Our campaign to raise funds for the Senate Library Endowment Fund has reached a most respectable level, and we are now starting to funnel money to the Library to assist in the purchase of rare books for the collection in recognition of the honorary degree recipients. Because of the change in the government matching grant program whereby endowment funds are matched on a one for one basis instead of two for one as previously done, we will have to strive over the years to increase the capital in the Fund to meet our original goal. I feel confident that present and future Senate members will accept this challenge.

Over the past few years, university presidents and, latterly, chairmen of the boards of governors across Canada have found it very useful to get together to compare problems and solutions and to exchange new ideas. We have for

many years held an annual meeting amongst the chancellors of the Alberta universities and found this to be a useful exercise. As the U of A, under Dr John Schlosser, organized the first national meeting of board chairmen on our campus, I thought it appropriate that we again show the way and we have invited the chancellors of the nine Western Canadian universities to meet in Edmonton in November of 1989 as a first step towards later organizing a cross-country meeting. I'm looking forward to playing host on this occasion.

Arising out of our Alberta chancellors' meetings and discussion by the Community Relations Committee of a Senate member's suggestion, I felt that the University could do more to recognize our top scholars and, starting with the Spring 1989 Convocation, we will be inviting the Gold Medal recipients from each day's convocation to join with myself, the President, the Board Chairman, the honorary degree recipients and other honored guests at the special noon luncheon which precedes each day's convocation ceremony.

Those of you who attended any day of Spring Convocation may have noticed something different on the platform. After many days of suffering under the hard, heavy, stiff mortarboards that were traditional chancellors' garb and under the heat of the glaring platform lights, I asked others on the platform why we subjected ourselves to this medieval form of torture. No one seemed to know the answer except to mumble something about tradition. When I pointed out that many of the faculty wore ceremonial gowns with softer, lighter head pieces, it was decided that I, indeed, had authority to make a change. I hope you like my new headgear as much as I do. I'm told that both the

present Chairman of the Board and the new President are going to opt for comfort also. Who knows, if this is followed by subsequent senior officials, it may also become a "tradition" and end up being one of my most lasting contributions to our University.

There has been one other occurrence during the past year which, although it has nothing to do with the Chancellor's position, has given Arliss and me a great deal of pleasure. Some four years ago we presented an idea to the University of establishing a facility out of Edmonton, but still convenient, in a rural setting which could accommodate seminars, small meetings, special retreats and a venue for artists and others to conduct special workshops. To this end my wife and I offered to donate 10 acres of wooded land near Seba Beach, Alberta, as a suitable site for such a facility and this spring the University decided to go ahead with the project under the direction of the Faculty of Physical Education and Recreation. There were many in the University family who supported the concept but I am particularly indebted to Hal Spelliscy, Executive Director of the Development Office, and Dean Gerry Glassford for the specific leadership and vision they have given to the project. The icing on the cake for Arliss and myself is that the Board of Governors recently decided to call the facility "The University of Alberta Miller Centre for Creative Learning". It is hoped that it will open for business late in 1989 or early in 1990.

Once again, I would like to express my personal thanks to our most capable Senate staff of Mary Totman, Judy Goldsand and Doreen Kostash for their assistance, guidance and friendship.

## Senate Activities

For the first meeting of the academic year Senate visited Spruce Grove and Stony Plain, spending half a day in each community to listen to ideas and suggestions as to how the University can better serve the area. Representatives from school boards and Westerra as well as a number of other individuals took time to attend the meeting, speaking to Senate on issues such as cooperation with the Kokousai Kaiyou School, the writing competency test, off-campus credit courses and the possible change of status for Westerra. Senate members received a clear picture of the way the University of Alberta was perceived and some of the difficulties teachers and potential students have when wishing to access postsecondary education.

Also at the meeting, the Task Force on the University and the North, after carefully reviewing responses received following the publication of its Draft Report, presented its recommendations. These were unanimously endorsed. The Progress Review Committee on the Task Force on Ethics presented information on what changes had taken place on campus since the presentation of the original Report in 1985. As part of his regular report, the President noted among other things that enrollment at the University had decreased,

presumably as a result of the increase in the minimum required high school average to 70 percent.

Before the meeting, Senate members visited the Devonian Botanic Garden and toured some of the facilities. Later in the day, prior to being hosted to a banquet sponsored by the County of Parkland, the City of Spruce Grove and the Town of Stony Plain, they visited the Multicultural Centre in Stony Plain.

During the rest of the year Senate met in the Council Chamber, Lister Hall and the Agriculture-Forestry Building. Visits were paid to the Glen Sather Sports Medicine Clinic and the Power Plant (for lunch and to listen to presentations of the Graduate Students' Research Symposium). The opportunity to gain increased familiarity with the campus was appreciated by the off-campus members of Senate.

Panel discussions were major items at two Senate meetings. In November Mr Dwayne Barber (GSA), Dr Elmer Brooker (Chamber of Commerce), Dr Raj Pannu (Educational Foundations), Mr David Tupper (SU), Mr Michael Welsh (Board of Governors) and Dr Bill Workman (Alberta Advanced Education) debated philosophical issues and practical implications related to the setting of tuition fees. Widely ranging views were expressed and Senate members had an opportunity to review the issue from several aspects. In March a presentation on

"The Professor as Teacher" involved Dr John Bertie (Chemistry), Dr Diane Kieren (Associate Vice-President Academic), Dr Jim Forrest (English), Dr Lois Stanford (Linguistics) and Mr Charles Vethan (student) in a stimulating expression of opinion on changing teaching methods, and the sometimes conflicting needs of students, professors and administrators.

In addition to regular reports from the President, the two student organizations and the Alumni Association, the Centre for Gerontology and the Faculty of Agriculture and Forestry were invited to share with Senate some of their aims and hopes for the future. Senate members appreciated the time the faculty generously gave in making presentations, participating in discussions and responding to questions. As advocates for the University in the community, Senate members were grateful for this kind of information-sharing.

## Committee Activities

### Community Relations

During the year this committee worked closely with the Director of Public Affairs to consider how best to communicate information about the University to Senate members. The Office of Public Affairs began

to produce Briefing Notes for Senators. These included information about what is happening on campus as well as special issues on specific policies (for instance Quotas and International Students). In addition, the committee discussed ways for Senate to recognize high-achieving students, guidelines for use by Senate members when in contact with the media and changes to the Senate retirement certificate. The committee was also closely involved in planning the social function at which Senate members and their guests were able to meet Dr and Mrs Davenport.

### Emil Skarin

Support from this committee was given to three projects this year: to the Devonian Botanic Garden towards the cost of printing a booklet about the Herb Garden; to the Faculty of Dentistry for the purchase of artifacts for the Dental Museum; and to the Inner City Drama Association for their children's program. A total of \$6,500 was distributed.

### Executive

The committee planned the four full-day meetings of Senate during the year; monitored the activities of the Task Force groups and the budget for the year; reviewed ways in which Senate could recognize high-achieving graduates; and organized a farewell function for Dr and Mrs Horowitz.



University of Alberta Senate: 12, May 1989



## Honorary Degrees

The committee, under delegated authority from the Senate, selected honorary degree recipients for the Special Convocation to celebrate the 75th Anniversary of the Faculty of Engineering, as well as for Fall and Spring Convocations. It reviewed most carefully the nominations received as a result of advertising in the *Edmonton Journal* and *Folio*, recognizing that an honorary degree is the University's highest honor, awarded on the basis of achievement for the common good.

## Nominating

Responsibilities of this committee included the orientation of new members; assignment of Senate members to committee responsibilities; and the preparation of a slate of names for election by Senate.

## Task Force Activity

In addition to the presentation of the final Report of the Task Force on the University and the North and the progress review of the Task Force on Ethics, Senate established a Task Force on Public Relations. Members have been working extensively to review what is currently happening with regard to public relations on the campus; and assessing public perceptions about the University from groups on campus and off. In this regard, the support of the faculty and non-academic staff, students and administration in helping with the compilation of this information has been invaluable. The draft Report will be presented to Senate in November.

## Other Committees

### Lay Observers

At the request of General Faculties Council, lay members of Senate served as observers of the admissions process in quota programs, as they have for the past ten years. This year nineteen programs had quotas. A report from the lay observers was forwarded to the GFC Committee on Admissions and Transfer.

### Library Endowment Fund

Senate members and their friends continued to contribute to the Library Endowment Fund, from which it is planned books will be purchased for the Special Collections Library, to honor each honorary degree recipient.

## Convocation

At two days of Fall Convocation 650 of 1,645 graduates attended the ceremony; and in the six days of Spring Convocation 2,361 of 4,244 attended. Receiving honorary degrees in the Fall were \*TA Baig, \*J Callwood and JG Kaplan (awarded posthumously). In the Spring, the University honored \*RK Banister, CR Cunningham, \*UM Franklin, \*E Marliiss, LD MacLean, \*SR Ramsankar, \*MA Strembitsky and \*TJ Walsh. In addition, the Chancellor presided over a Special Convocation in Convocation Hall, to celebrate the 75th Anniversary of the Faculty of Engineering. Receiving honorary degrees on that occasion were G Ford, EW King and \*DR Stanley. (\* gave Convocation Address)

## Senate Membership List 1988-89

### Ex officio

Associate Chief Justice TH Miller (Chancellor)

Dr M Horowitz (President)

Dr JP Meekison (Vice-President (Academic))

Dr PM Miller (Dean of Student Services)

Dr D Foth (Dean of Extension)

Mr R MacDonald (President, Alumni Association)

Ms M Neufeld (Vice-President, Alumni Association)

## Appointed

### Deans' Council

Dean J-A Bour

Dean WJ McDonald

### Board of Governors

Mrs M Lobay

Mr MC Welsh

### General Faculties Council

Dr D Fishwick

Dean RG Glassford

Dr H Madill

### Alumni Association

Mr W Goos (Leduc)

Mr C McAndrews

### Students' Union

Mr W Deisman

Mr M Hunter

Mr J Lucien

Mr D Tupper



Senate tours the Devonian Botanic Garden

## Graduate Students' Association

Ms C Wilson

## Minister of Advanced Education (Non-Academic Staff Members)

Ms P Brunel

Mr B Hsu

## Minister of Advanced Education (Public Members)

Mrs E Bereti

Mrs S Edwards

Mrs M Gallo

Mr WJM Henning

Mrs B Kerr

Mr AE Koch

Mrs A Meldrum

Mr L Soper

Mr R Woznura

## Elected Members

Mrs D Allan

Dr B Armstrong

Mr K Balkwill

Ms C Blair (Red Deer)

Mrs B Bryant (Calgary)

Mr P Caffaro

Mr J Common (Sherwood Park)

Ms D Davidson (Medicine Hat)

Mrs P Ellis

Mr JGR Fitzgerald

The Hon P Greschuk

Mr R Hill

Father W Irwin

Mr C Knight (Fort McMurray)

Ms M Lee

Mr C McDonald (Vegreville)

Mrs L Miller

Dr BA Olsen

Mrs J Oshry

Mr J Parker (Yellowknife)

Mrs M Payne (Calgary)

Mrs M Pemberton

Ms G Purcell

Mr W Ross

Mrs K Shoctor

Ms R Spector

Mrs J Wahl (Peace River)

Dr H Wojcicki

Mr WJ Yurko

Ms E Zawadiuk (Two Hills)

## Senate Staff

Mrs RM Totman (Executive Officer)

Mrs JL Goldsand (Task Force

Coordinator)

Mrs D Kostash

(Executive Secretary)

## Committee Memberships

### Standing Committees

#### Executive

Associate Chief Justice Miller

(Chairman)

Dr Horowitz (*ex officio*)

Mr Caffaro

Mrs Kerr

Mrs Oshry

Mr Tupper

Ms Wilson

Mr Yurko

Ms Zawadiuk

#### Community Relations

Dr Olsen (Chairman)

Associate Chief Justice Miller

(*ex officio*)

Mrs Clarke (Director, Public

Affairs) (*ex officio*)

Mr Deisman

Dean Foth

Mrs Gallo  
Ms Lee  
Mrs Meldrum

### **Emil Skarin Fund**

Ms Brunel (Chairman)  
Associate Chief Justice Miller  
(*ex officio*)

Dean of Arts (*ex officio*)  
Dr Clarke (*ex officio, family member*)  
Mr Lucien  
Mrs Pemberton

### **Honorary Degrees**

Associate Chief Justice Miller  
(Chairman)

Dr Horowitz (*ex officio*)  
Mrs Allan  
Mrs Bereti  
Mr Deisman  
Mrs Ellis  
Dr Fishwick  
Mr Fitzgerald  
Mr Hsu  
Mr Koch  
Dean Miller  
Mr Parker  
Mrs Payne  
Mr Soper

### **Nominating**

Mrs Oshry (Chairman)  
Associate Chief Justice Miller  
(*ex officio*)

Mrs Bereti  
Dean Bour  
Ms Brunel  
The Hon P Greschuk  
Mr Lucien  
Mr C McDonald  
Dr Wojcicki

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## **Ad Hoc Committees**

### **Task Force on Ethics Review**

Ms Lee (Chairman)  
Mrs Brown  
The Hon P Greschuk  
Mr LaGrange  
Dean Miller

### **Senate Library Endowment Fund**

Mr Henning (Co-Chairman)  
Mrs Meldrum (Co-Chairman)

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## **Task Force**

### **Public Relations**

**Terms of Reference:**  
1. to examine current public

relations activities of the University of Alberta;  
2. to assess attitudes toward the University of Alberta held by its key publics;  
3. to explore with the University's key publics ways to foster mutually beneficial relationships;  
4. to consider options for new or more effective ways in which the Senate and other University units could enhance the overall public relations dimension of the University;  
5. to make recommendations.

### **Membership**

Mr McAndrews (Chairman)  
Mr Common  
Mr Hill  
Dean Glassford  
Mr Hunter  
Dr Madill  
Mr Newbigging, Publisher,  
*Edmonton Journal*  
Mr Norwood (Associate  
Vice-President (University  
Relations))  
Dr Olsen  
Mrs Shoctor

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## **Other Senate Appointments**

### **Senate Appointee to Board of Governors**

Mrs Kerr (to December 1988)  
Mr Yurko (from January 1989)

### **Senate Observer to GFC Academic Development Committee**

Ms Purcell

### **Faculty of Extension Council**

Ms Blair  
Mr Common  
Mr Goos  
Ms Spector  
Mrs Wahl

### **Senate Representative on Council on Student Services**

Mrs Oshry

### **Search Committee for a President**

Ms Lee

### **Canadian Futures Research Institute**

Mrs Pemberton

### **Ethics Review Committee on Human Experimentation**

Mr Balkwill

## **Lay Observers of the Admissions Process in Quota Programs (1988 Admissions)**

### *Agricultural Business Management*

Mrs Lobay  
*Agricultural Engineering* Mr Woznura  
*Business* Mrs Allan (Chairman)  
*Computing Science* Mr Balkwill  
*Criminology* Mrs Miller  
*Dentistry and Dental Hygiene*  
Ms Davidson

*Drama* Mrs Edwards

*Engineering* Mr Woznura

*Law* Mr Common

*Library and Information Studies*

Mr Hill

*Medical Lab Science* Mr McDonald

*Medicine* Mrs Allan

*Nursing* The Hon P Greschuk

*Pharmacy* Mrs Ellis

*Physical Education and Sport Studies*

Mr Knight

*Recreation and Leisure Studies*

Mr Ross

*Rehabilitation Medicine:*

*Occupational Therapy* Ms Blair

*Physical Therapy* Mrs Edwards

*Speech Therapy* Mrs Pemberton

*Theatre Design* Ms Lee

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## **Farewells**

Mrs Bereti  
Ms Brunel  
Mr Fitzgerald  
Dr Glassford  
Dr Horowitz  
Mr Hunter  
Father Irwin  
Mrs Kerr  
Ms Lee  
Mr Lucien  
Mr C McDonald  
Mr Parker  
Mr Soper  
Mr Tupper  
Ms Wilson  
Dr Wojcicki

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## **Welcome**

Mr Richard Chernuka  
Dr Marlene Cox-Bishop  
Mr Dan Daniels  
Dr Paul Davenport  
Dr Arthur Denson  
Dr Bernie Keeler  
Mr Roy Louis  
Mr Colin McDonald  
Ms Wendy Olson  
Mr Brendon O'Neill  
Mrs Mary O'Neill  
Ms Heather Prentice  
Mr Ben Steblecki  
Mr Paul Viminitz  
Dr Curt Vos  
Dr Lowell Williams



## University of Alberta Edmonton

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### The Senate

invites members of the public to nominate candidates for

### Honorary Degrees

The University of Alberta awards Honorary Degrees to individuals who have made outstanding contributions during their lives.

Nominees may be of local, national or international reputation and need not be of Canadian citizenship.

Nominations must be received in the University of Alberta Senate Office by **Wednesday, November 1, 1989**, and should include the signatures and addresses of two nominators, as well as a resume of the nominee and at least one letter of support.

Enquiries should be addressed to:

The Senate  
150 Athabasca Hall  
Edmonton, Alberta T6G 2E8  
Phone (403) 492-2268

## Endowment Fund for Ukrainian Folklore soars past its goal

Nearly two years ago (1 October 1987), on its front page, *Folio* featured the presentation by Mr and Mrs Erast Huculak of a cheque for \$250,000 to the Endowment Fund for Ukrainian Folklore.

Now, with further contributions by Mr and Mrs Huculak, with donations by members of the academic staff and by members of the community, and with the aid of the Alberta government matching grant program, the fundraising goal of \$1,200,000 has been reached, indeed surpassed. To celebrate this, and to inaugurate the search for the first incumbent of the Huculak Chair in Ukrainian Culture and Ethnography, a reception was held on 19 September in University House.

Present at the ceremony—apart from Erast and Lydia Huculak—were Jack Scott, Vice-Chair of the Board of Governors; Paul Davenport, University President; The Hon John Gogo, Minister of Advanced Education; The Hon Doug Main, Minister of Culture and Multiculturalism; Chancellor eritus Peter Savaryn; and Chancellor Tevie Miller. Mistress of ceremonies was Patricia Clements, Dean of Arts. A presentation—of a commemorative book and a picture of the Ukrainian Greek Catholic



Mr and Mrs Huculak (displaying picture) and (from left) Mary Lobay, Bohdan Medwidsky, President Davenport, Dean Clements, Bob Busch and Peter Savaryn celebrate the achieving of the fundraising goal.

Church from Buczacz, Alberta (now situated at the Ukrainian Cultural Heritage Village),—was made by Bohdan Medwidsky, (Slavic and East European Studies).

Both Erast and Lydia Huculak were born in Ukraine and

emigrated to Canada in 1948; both completed high school in Vancouver; both enrolled at UBC, where they met and married. Mr Huculak graduated in pharmacy, and is now president of a pharmaceutical and medical

supplies chain. Both are actively involved in several Ukrainian clubs and in a number of charitable institutions.

Interest in Ukrainian folklore studies at the University of Alberta has existed almost since the first Ukrainian courses were taught in what was then the Department of Modern Languages: the first MA thesis on Ukrainian folklore was granted in 1963. There are now six undergraduate and three graduate courses in Ukrainian folklore, and six MA degrees in this subject area have been granted. The Ukrainian folklore courses form part of the curriculum for students in Education who plan careers in bilingual Ukrainian-English school programs in the prairie provinces; one of the courses is required for guides employed at the Ukrainian Cultural Heritage Village.

The program in Ukrainian folklore, which includes the BA, MA and PhD degrees, is the only one of its kind outside Eastern Europe, and is the only program in Canada in the folklore of a non-official language group. It is part of a cluster of programs in the Department of Slavic and East European Studies, and complements the research activities of the Canadian Institute of Ukrainian Studies. □

## Advanced Education awards grant to Peikoff Chair; services for deaf being studied

A \$132,000 grant from Alberta Advanced Education has been awarded to the David Peikoff Chair of Deafness Studies in postsecondary education.

Chairholder Jerome Schein says the grant will fund studies to develop policies and procedures to maximize the use of "visual language interpreters" for postsecondary deaf and hard of hearing students.

VLI's enable hearing disabled students to understand lectures and participate in classroom discussions by converting speech to sign language and sign language to speech.

A number of studies will be

conducted on VLIs and other visual aids and the future demands for these services will be estimated to 1999. Information will also be gathered on the existing services along with students' experiences and attitudes, says Dr Schein.

"The project will also include a survey of classrooms, because physical facilities in which deaf and hard of hearing students meet affect their sensory functions more than they do students with unimpaired hearing, though all students can profit from better designed instructional spaces," says Dr Schein.

He says the study results will include recommendations for the

province's postsecondary institutions to better educate deaf and hard of hearing students.

Noting the existence of a nation-wide study on VLI training, the market for VLI services and the nature and extent of the VLI cadre, Dr Schein says, "Together these provincial and national researches should provide the most comprehensive picture yet drawn in any country of its policies, resources and projected needs for visual aids vital to the education of deaf and hard of hearing students."

The study will also draw upon other studies now being conducted by the Peikoff Chair. □

## Environment Awareness Week organized by Students' Union

The "Three Rs" used to stand for readin', 'riting and 'rithmetic, but the Students' Union is hoping to change that.

Reducing, reusing and recycling will be the order of the day during the Students' Union's Environment Awareness Week 2 to 6 October.

"Dioxins, toxic wastes, overburdened landfill sites and ozone depletion are just a few of the problems we face today—and passivity is not the solution," says coordinator Kathy Lazowski. The week's events at the University will be an opportunity "to find out what you can do to contribute to a healthier environment."

The week is part of a campaign by the students' unions of postsecondary institutions across the province. On this campus, a number of activities and speakers on environmental concerns will be featured.

The week kicks off with a debate 2 October between Provincial Environment Minister Ralph Klein, New Democrat John McInnes and Liberal Grant Mitchell. The debate will be held at the Myer Horowitz Theatre from 3 to 4 pm.

That evening (8 to 10 in the same theatre) controversial environmental activist Paul Watson will speak on the role of the activist. There will be a charge for this event and tickets can be obtained at BASS outlets.

On Wednesday from noon to

1 pm Ward 5 aldermanic candidates will discuss students' environmental concerns. This will take place in the Myer Horowitz Theatre.

In TL-11 Tory Building the following day (12:30 to 1:30 pm), Brian Staszewski of the Environment Resource Centre will discuss the topic "From global concerns to local actions." From 7 to 10:30 pm in the Myer Horowitz Theatre, representatives of environmental interest groups will discuss such topics as deforestation, ozone depletion and native rights.

On Friday from noon to 1 pm in the Myer Horowitz Theatre Tooker Gomberg, host of Terradox, CJSR; Pam Kerslake, Alberta Environment; and Lloyd Egan, Environmental Services, City of Edmonton, will discuss recycling.

A room has yet to be confirmed for a Tuesday talk by Laura Keeth of Toxics Watch Project; this event will take place from 12:30 to 1:30 pm.

"As part of this focus an introductory recycling campaign will take place across campus (an extension of the existing program done by the University)," says Lazowski. "As well, informational displays will be set up in the Students' Union Building, Central Academic Building and HUB International," she says. □



President Paul Davenport reiterates his response to the Report to the President of the Pay Equity Review Committee for members of the media last Friday. Flanked by Equity Advisor Doris Badir (left) and NASA President Anita Moore, President Davenport reaffirmed the University's commitment to the principle of employment equity.

## Gunnars new U of A writer-in-residence

The University of Alberta writer-in-residence for 1989-90 is Kristjana Gunnars.

Gunnars is a poet, fiction writer, translator, essayist, scholar and editor; she was born in Iceland and has lived in Canada since 1969.

Gunnars has produced six books of poetry, two works of fiction and two translations, and she has edited three books.

From now until the end of May, she will be available for

consultation with writers on campus and in the broader community.

Her office is in 3-73 Humanities Centre, telephone 492-7810.

The appointment is made possible by the Canada Council, Alberta Culture, the Alberta Foundation for the Literary Arts, the University of Alberta Alma Mater Fund and the English Department. □

## Learning the Library: series of four classes offered to students

Many students wait until term paper deadlines loom before attempting to master the rudiments of library research. To alleviate this situation the Library is offering a series of four library instruction classes. The classes are designed to provide students with the basic skills needed to make effective use of a large academic library. Schedules are available at Library information desks.

Instructors are encouraged to notify students of the program. For those lecturers wishing to make the Library Skills program mandatory, the Library will be issuing proof of attendance slips in all classes. The slip will include the title of the session attended so that attendance at a variety of sessions may be verified.

The Library Skills I session uses slides and lecture format to introduce the Library system. Library Skills II and III feature hands-on practice in use of the

online catalogue, and Library Skills IV provides an introduction to retrieval of information in magazines and journals.

The program is intended to provide instruction in library skills outside of class time for the student body at the University of Alberta. It is not intended to replace any special library orientation that instructors may have arranged with a subject library.

More information may be obtained from the Bibliographic Instruction Librarians at 492-5544. □

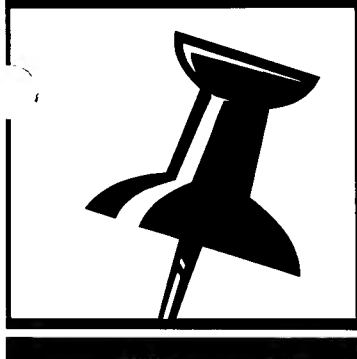


The students of Pembina Hall, in cooperation with Housing and Food Services and Alumni Affairs, held an open house last Saturday to commemorate the 75th anniversary of the Hall. Friends of Pembina presented framed historical pictures depicting the Hall's early days. The open house was held in conjunction with Alumni Affairs' annual Reunion Weekend.





## CURRENTS



### Faculty Curling Club

All University employees are invited to join the Faculty Curling Club. There's action every Monday at 5 pm at the Shamrock Club, only a 10-minute drive from campus. "This is a league which caters to curlers of all abilities," says FCC President Dave Spearing.

The cost is \$110 for the 20-week season which includes two fun bonspiels and a wind-up banquet with prizes for all.

A meet and greet and general registration session is planned for 2 October at 5-7 p.m. at the Shamrock Club (9330 80 Avenue) and Ken Hunka will give curling instruction to all who request it.

### Improve performance in life skills

The Faculty of Extension is conducting seminar/workshops in assertion training, dealing with stress and building communication skills.

For information or a brochure, call 492-5069.

### Communications courses

The Faculty of Extension is presenting fall courses/workshops dealing with leadership, discipline and parenting, creative conflict resolution, public speaking and building communication skills.

For information or a brochure, call 492-5069.

### Faculty Badminton Club

Badminton will be played every Tuesday (8 to 10 pm) in E-19 (Dance Gym) and every Wednesday (8 to 10 pm) in the Education Gym. Faculty, research associates, postdoctoral fellows and spouses are welcome (beginners to experts included).

The annual fee is \$15 per person and includes the cost of birds. For more information, call AZ Capri (492-5502) or N Cyr (450-5417).

### Change of TV equipment delivery policy

As of 1 September, the booking of television equipment is as follows: TV monitors, half-inch VHS video players and three-quarter inch Umatic video players: contact Audio Visual Services, L2-6 Humanities Centre, 492-0173.

TV Camera systems, projection TV units, LCD panels for overhead computer presentations: contact Television Services, CW005 Biological Sciences Building, 492-4962.

The user is responsible for shipping arrangements.

## Alumni Association makes University MasterCard available to students

It doesn't hurt to have a MasterCard when you're working towards a master's (or any other) degree.

Credit the Alumni Association with making the card available to students. As part of the Association's contract with the Bank of Montreal, students can apply for the card and charge up to \$800 on it.

This is a follow-up to the initial MasterCard program under which all graduates of the University of Alberta, faculty and staff could apply.

Money raised through the program is being used to support various initiatives of the Association.

It's not necessary to have a Bank of Montreal account, but, owing to conditions imposed by MasterCard International, the card is available only to applicants having a Canadian address.

Money is raised this way: every time a person uses a credit card, the vendor pays a percentage of the transaction amount to the bank that issued the card. In the case of the University of Alberta MasterCard, the Bank of Montreal has agreed to share a percentage of its revenue with the University. The bank management's thinking is that the bank's gains from this special marketing program—more people using its cards more often,

giving it a bigger market share—outweigh the costs.

The U of A MasterCard carries all of the features one would expect (worldwide acceptance, automatic banking machine access) plus

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The card is used just the same as a regular MasterCard.

To obtain an application form, call 1-800-668-9190 (toll-free) or stop by the Alumni Affairs Office, 430 Athabasca Hall. □

## EVENTS



### Talks

#### English

28 September, 12:30 pm Kristjana Gunnars, writer-in-residence for 1989-90, will read from her works. L-3 Humanities Centre.

#### Soil Science

28 September, 12:30 pm L Bauer, "Farmland Crop Input Decisions: Economic and Agronomic Dimensions." 2-36 Earth Sciences Building.  
5 October, 12:30 pm RC Izaurralde, "A Simulation Model of Banded Ammonia in Soils." 2-36 Earth Sciences Building.

#### Limnology and Fisheries Discussion Group

28 September, 12:30 pm David Schindler, "Potential Effects of Greenhouse Warming on Boreal Lakes." M-149 Biological Sciences Centre.  
5 October, 12:30 pm Steve Hrudey, "Analytical Methods for Solving Taste and Odor Problems in Drinking Water." M-149 Biological Sciences Centre.  
12 October, 12:30 pm Suzanne Bayley, "Effects of Fire on Stream Chemistry." M-149 Biological Sciences Centre.

### International Centre

"Passport to the World."

28 September, 12:30 pm "Global Assembly Line"—filmed in Mexico, the Philippines and the USA, this production takes viewers into the new global economy, looking at the lives of women working in the "free trade zones" of the Third World as US industries search for lower wage workforces. 172 HUB International.

### Political Science

28 September, 1 pm JJ Richardson, professor of politics and head of the department, University of Strathclyde, Glasgow, "Britain's Response to Economic Crisis." 10-4 Tory Building.  
29 September, 1 pm JJ Richardson, "The Political Management of Unemployment in Britain." 10-4 Tory Building.

### Classics

28 September, 3:30 pm CP Jones, Department of Classics, University of Toronto, "Greek Drama in the Roman Empire." 1-8 Humanities Centre.  
29 September, 11 am Professor Jones, "What is Epigraphy?" L-4 Humanities Centre.  
12 October, 3:30 pm Oliver Picard, director of the French School at Athens, Greece, "The Greek Polis and Monetary Policy Under Philip and Alexander." 1-8 Humanities Centre.

### Physics

28 September and 5, 12, and 19 October, 3:30 pm Shixun Zhou, Fedan University, People's Republic of China, will speak on the general topic, "Energy spectra of low-dimensional electrons in semiconductor heterostructure, including: 1) Electronic collective excitations in semiconductor superlattices (I and II); 2) Collective modes of a two-dimensional electron gas in a cylindrical quantum well; 3) Charge density excitations in quasi-one dimensional semiconductor structures; 4) Energy of two-dimensional electrons in a strong magnetic field and fractional quantum Hall effect (I and II)." 631 Avadh Bhatia Physics Laboratory.  
29 September, 2 pm D Ian Gough, "Electromagnetic Journey into the Earth." V-121 Physics Building.

### Literary Theory Series

28 September, 4 pm Robert Wilcocks, "The Dreams of Interpretations" (on Freud's *Interpretation of Dreams*). 5-20 Humanities Centre.

### Botany

28 September, 4 pm Roger Lee, "Fruit Growth—The Theoretical Tomato Meets the Real World." M-149 Biological Sciences Centre.

### Zoology

29 September, 3:30 pm Richard Grosberg, Zoology Department, University of California, Davis, "Close Encounters of the Fourth Kind: Evolution of Allotricognition Specificity." M-149 Biological Sciences Centre.  
6 October, 3:30 pm Manfred Lohka, Department of Cell Biology, University of Colorado, "Regulation of Metaphase in Cell-Free Extracts of *Xenopus* Eggs." M-149 Biological Sciences Centre.

## Library receives \$50,000 from SSHRCC

The University of Alberta Library has received grants totalling \$50,000 from the Social Sciences and Humanities Research Council of Canada.

Two awards of \$20,000 each will support the further development of the Library's collections of modern children's literature and modern methods of music analysis. Two further awards of \$5,000 each are dedicated to the purchase of Chinese government documents and English popular literature, 1750-1830. □

13 October, 3:30 pm Dean Befus, Department of Microbiology, University of Calgary, "Neuroimmunology: Sympathetic Modulation of Pulmonary Inflammation." M-149 Biological Sciences Centre.

## Institute for Financial Research

29 September, 3:30 pm Giovanni Barone-Adesi, "A Simple Formula for Futures Prices on Lognormal Treasury Bonds." 4-16 Business Building.

## Rural Economy

2 October, 3:15 pm Joan Fulton, University of Minnesota, "Centralization Versus Decentralization of Decision-Making Authority." 519 General Services Building.

## Sociology

3 October, 3:30 pm Shmuel N Eisenstadt, Hebrew University of Jerusalem, "Japan in a Comparative Perspective: The Limits of Convergence." Location: TBW-1 Tory Breezeway.

## Alberta Heritage Foundation for Medical Research

3 October, 4 pm Mark E Stearns, associate member, Fox Chase Cancer Center, Philadelphia, "Molecular Changes in Subcloned Prostatic Tumor Cells (PC-3) With Metastatic Invasion Activation." 5-10 Medical Sciences Building.

## Chemical Engineering

5 October, 3 pm Richard G Rice, Department of Chemical Engineering, Louisiana State University, Baton Rouge, "Circulation and Mixing in Bubble Columns." E342 Chemical-Mineral Engineering Building.  
13 October, 3 pm RJ Kerekes, Pulp and Paper Research Institute of Canada, University of British Columbia, "Pulp and Paper: Alberta's Growing Industry." E343 Chemical-Mineral Engineering Building.

## Canadian Institute for Nordic Studies and Germanic Languages and Literature

5 October, 7:30 pm Author Märta Tikkanen, "To Be a Woman Writer in Finland." TBW-1 Tory Breezeway.

## Lip and Lipoprotein Research Group

6 October, 3 pm Angelo M Scanu, professor of Biochemistry and Molecular Biology, and Medicine, Pritzker School of Medicine, University of Chicago, "Relationship of Lipoprotein(a) to Low Density Lipoprotein Receptor." 207 Heritage Medical Research Centre.

## The Arts Exhibitions

### FAB Gallery

Until 1 October "St Michael's Printshop: 1972-1987." 492-2081.

## Bruce Peel Special Collections Library

Until 29 December "Printed at the Curwen Press" —a miscellany of books, periodicals and ephemera produced at the Press during its heyday, 1919-1956. Hours: 8:30-4:30 Monday through Friday until 6 October. Effective 10 October: 8:30-4:30 Monday and Friday; 8:30-6 Tuesday, Wednesday, Thursday; noon-5 Saturday.

## McMullen Gallery

Until 21 October "The Sky's the Limit." 1G1.08 Mackenzie Health Sciences Centre. 492-4211.

## Musée Héritage Museum

Until 12 November "Cryptogams: Mosses, Lichens and Liverworts" —extraordinary beauty and importance to the earth of these tiny plants. From University Collections. 5 St Anne Street, St Albert. 459-1528.

## Myer Horowitz Theatre

30 September, 7 pm "The Grapes of Wrath and Sarah McLachlan."

## Music

1 October, 8 pm Student recital—Merrill Tanner, soprano.  
4 October, 8 pm Faculty recital—Fordyce Pier, trumpeter.  
10 October, 3:30 pm Masterclass—Stanley Clark, trombonist.  
10 October, 8 pm Visiting artists recital—Donald Schultz, trumpeter, and Stanley Clark, trombonist.  
All events in Convocation Hall.

## Edmonton Chamber Music Society

10 October, 8 pm "London Baroque." Myer Horowitz Theatre.

## Sports

### Volleyball

29 to 30 September U of A High School Tournament.

### Hockey

29 September to 11 October Molson Golden Bear Invitational.

### Football

30 September, 1 pm Golden Bears vs Calgary.

## Award opportunities

### The Calgary Institute for the Humanities, University of Calgary Visiting Postdoctoral Fellowship 1990-91

Field of study: Humanities which includes English language and literature, classical and modern languages and literature, history, philosophy, religious studies and linguistics. Applications may also be considered in the historical or

philosophical aspects of the arts or social, natural or applied sciences. *Value:* \$22,320 plus a travel allowance of not more than \$1,000. Fellows may augment the stipend by teaching up to a maximum of one course with approval of the dean of the appropriate teaching faculty. Fellows will have office facilities and use of the university's library facilities. *Tenure:* 1 July 1990 to 30 June 1991, or 1 September 1990 to 31 August 1991 (non-renewable). *Conditions:* The purpose of this fellowship is to provide an opportunity for young scholars who have recently completed doctoral studies to pursue their chosen areas of scholarly research further. One appropriate use of the fellowship would be the presentation of material from the doctoral dissertation for publication. Postdoctoral fellows are expected to give one lecture or seminar presentation in each term but otherwise no formal obligations are attached to the fellowship. Candidates must be Canadian citizens or landed immigrants and have had the doctorate degree conferred at some time later than 1 September 1988. Candidates in the final year of their doctoral programs who wish to apply may do so on the clear understanding that the award will be withdrawn if all academic requirements for the degree are not completed by 1 September 1990. *Deadline:* 6 November 1989. *Apply:* Dr HG Coward, Director, The Calgary Institute for the Humanities, University of Calgary, Calgary, Alberta T2N 1N4. Each letter of application should include a *curriculum vitae* (specifying date of conferment of degree), and a full statement of the nature of the proposed research which he or she wishes to pursue while at the Institute. In addition to this, candidates should ensure that at least three letters of support related to the proposed research are sent directly to the Institute by scholars familiar with the candidate's work. The names of the three scholars who will provide references should be included in the letter of application. These letters should not only contain a general appraisal of the candidate's quality and academic record but should also include a frank expression of opinion concerning the merits and defects of the proposed plan of work; in particular the authors of these letters should be requested to comment on how far it can be fulfilled in the limited time available under the terms of the fellowship.

### The Hamilton Foundation EB Eastburn Fellowship for Postdoctoral Scientific Research

Field of study: natural or physical sciences, including medicine. *Value:* \$40,000 per annum. *Tenure:* commences 1 September 1990. *Conditions:* The purpose of the fellowship is to permit the candidate to pursue full-time postdoctoral study and research in his/her chosen field at any recognized university in Canada. Applicants must have recently received a PhD degree (or equivalent), or anticipate receiving such a degree by June 1990. The award is confined to those holding Canadian citizenship or permanent resident status at the time of application. *Deadline:* 31 December 1989. *Apply:* Mrs Judith McCulloch, Executive Director, The Hamilton Foundation, Suite 205, 120 King Street West, Hamilton, Ontario L8P 4V2

## Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

## Academic

### Soil physicist, Department of Soil Science

The Department of Soil Science, Faculty of Agriculture and Forestry, invites applications for an academic position in Soil Physics.

The position requires undergraduate and graduate teaching; supervision of graduate students; developing a research program in Soil Physics with external funding; contributing to extension functions.

We are seeking an individual holding a PhD in Soil Physics, or closely related discipline, with a strong background in physics and mathematics, and capabilities in simulation modelling. We wish an emphasis on theoretical soil physics with interests in water and solute transport in porous media. Familiarity with current approaches to computer modelling of transport phenomena and a relevant publication list will be distinct assets.

The Department of Soil Science has 10 academic staff and is in the Faculty of Agriculture and Forestry which has 108 academic staff members. Collegial interaction is expected with staff in the Department of Soil Science and other departments involved in agricultural, silvicultural and environmental research.

This is a tenure track position at the Assistant Professor level for which the current salary range is \$34,970 to \$51,434. Letters of application, names and addresses of three referees, academic transcripts and a *curriculum vitae* should be sent to: JS Robertson, Chairman, Department of Soil Science, University of Alberta, Edmonton, Alberta T6G 2E3.

The closing date for applications is 30 November 1989.

### Microcomputer Support Analyst, Faculty of Business

A microcomputer support analyst is needed to provide administrative and technical support to a wide variety of microcomputer users in microcomputer hardware and software, Novelle network administration and microcomputer database administration (R-base).

The ability to work well with people is essential. Salary is negotiable depending on experience and qualifications.

Qualifications: bachelor's degree, preferably in computing science, or an equivalent combination of education and experience.

Send résumé to: The Assistant to the Dean, 4-40D Business Building, University of Alberta, Edmonton, Alberta T6G 2R6.

## Support staff

To obtain further information on the following positions, please contact Person Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot

be guaranteed beyond 22 September. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.  
Positions available as of 22 September 1989.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.

Clerk Typist, Grade 3, University Health Services, (\$1,468-\$1,808)  
Clerk Steno, Grade 4, Philosophy, (\$1,456-\$1,973)  
Systems Control Clerk, Grade 4, University Computing Systems, (\$1,602-\$1,973)  
Clerk Typist (Split Funded), Grade 5, Occupational Therapy, (\$1,623-\$2,166)  
Clerk Steno, Grade 5, Faculty of Extension (Government Studies), (\$1,623-\$2,166)  
Clerk Steno, Grade 5, Pharmacology, (\$1,623-\$2,166)  
Secretary, Grade 5, Computing Science, (\$1,749-\$2,166)  
Secretary, Grade 5, Alumni Affairs, (\$1,749-\$2,166)  
Storeman, Grade 4, Materials Management, (\$1,602-\$1,973)  
Technical Assistant (Seamstress), Grade 4, Drama, (\$1,602-\$1,973)  
Biology Technician, Grade 6 (Split Funded), Genetics, (\$1,914-\$2,386)  
Technician (Horticulturalist), Grade 7, Devonian Botanic Garden, (\$2,084-\$2,612)  
Programmer Analyst, Grade 7, University Computing Systems, (\$2,084-\$2,612)  
Technologist, Grade 8, Food Science, (\$2,251-\$2,839)  
Administrative Assistant, Grade 9, Comptroller's Office, (\$2,408-\$3,089)  
Machinist Technician, Grade 9, Physics, (\$2,436-\$3,089)

The following positions retain salary rates in accordance with the previous classification system and pay plan.

Clerk Typist III (Part-time, Trust), Home Economics (Foods and Nutrition), (\$738-\$927) (prorated)  
Clerk Steno III (Part-time, Trust), Pediatrics, (\$738-\$927) (prorated)  
Accounts Clerk (Part-time, Trust, Term to 28 February 1990), National Screen Institute, (\$823-\$1,050) (prorated)  
Medical Steno (Trust), Medicine (Dermatology), (\$1,645-\$2,100)  
Medical Steno (Trust), Medicine (General Internal), (\$1,645-\$2,100)  
Medical Steno (Trust), Medicine (Nephrology), (\$1,645-\$2,100)  
Technologist I (Part-time, Trust, Term), Pathology, (\$1,050-\$1,355) (prorated)  
Administrative Assistant II, (Part-time, Trust), Business (Centre for International Business Studies), (\$1,193-\$1,545) (prorated)  
Laboratory Assistant III (Trust), Medical Laboratory Science, (\$1,475-\$1,853)  
Technician I (Trust/Term), Plant Science, (\$1,705-\$2,189)  
Technician I/II (Trust), Pediatrics, (\$1,705-\$2,488)  
Technologist I (Trust), Pharmacy, (\$2,100-\$2,710)  
Technologist II (Trust), Physiology, (\$2,283-\$2,960)  
These rates reflect the Board of Governors-NASA 3.8 percent negotiated increase.

## Advertisements

### Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer queries, and send information. No cost or obligation. Call collect (604) 595-3200, Lois Dutton, Re/Max Ports West, Victoria, BC.  
Sale - 150 acres of productive land located 20 miles SE of city, on pavement, quilt area, \$700 per acre, 941-3962.

Rent - Furnished three bedroom house in Millwoods. Non-smoking, no pets. November-June. Call 461-1926.

Rent - Furnished, three bedroom home, \$500/month, plus utilities, 28 October-5 April, all appliances, car plug-ins, 12 minutes from University. References. 489-7238.

Rent - Furnished bungalow, west end, October-April, 483-6985.

Sale - Acreage, south Beaumont. Beautiful 2,500', nestled in trees. Five bedrooms, library, two fireplaces, spiral staircase. Triple, heated, attached garage. Private. After 6 pm, 986-5708. \$122,900 or trade house, University area.

Sublet - Fully furnished two bedroom apartment, ten minute walk to University. January-July, 492-4332, 439-4885.

Rent - Summerland, BC. Beautiful, furnished home. Panoramic lake view, acres of peaches and plums. December '89-December '90. \$1,000/month, 492-5771.

Sale - Grandview, only minutes from University, quiet, treed location. Four bedrooms plus den. Large assumable mortgage. Ann Dawrant, Spencer Realty Executives, 436-5250.

Rent - January for one year, two-plus bedroom bungalow, fully furnished, large lot, garden, Pleasantview. Quiet area close to schools, bus, stores. \$650/month. Nonsmokers. 435-2027.

Rent - Charming new home, Riverdale, two bedrooms and loft. Available 15 October, \$1,400/month. Western Relocation, 488-0056.

Rent - Perfect for two, parklike setting, convenient downtown location. Available October, \$900/month. Western Relocation, 488-0056.

Rent - Riverbend condo, luxurious one bedroom and den. \$1,400/month, available 1 October. Western Relocation, 488-0056.

Sale - University area. By owner. Clean two bedroom bungalow with two bedroom basement suite. Two full baths, single car garage. Asking \$108,000. 11442 76 Avenue, 436-1978 for appointment to view.

Sale - Spacious two storey, four bedroom home, close to University. Fully finished basement, many upgrades. Joan Lynch, 436-5250, Spencer Realty, or 433-9025.

Sale - Three bedroom bungalow, many upgrades, close to University. Alice Caine, 436-5250, Spencer Realty.

Sale - Close to University. Excellent revenue property on large lot. Blanche McKenzie, Spencer Realty, 436-5250, 462-8072, residence.

### Accommodations wanted

Quiet, responsible, visiting professor (female) wishes to rent/share furnished house near campus. Prefer two bedroom, two bath. 452-1286. Very reliable female housekeeper available. Celina, 476-3105.

### Automobiles and others

Sale - 1987 Nissan Pathfinder SE-V6, 4x4, excellent condition, air conditioned, tape deck, 46,000 miles. 439-5574 after 6 pm.

Sale - Dodge Aries, 1985, half year Chrysler warranty. New front tires, \$4,750. Good furniture and household effects. Moving. 5635 105 Street. Etsuko, 436-6143.

Sale - 1988 Mazda LX 323, five speed, four door sedan (Burgundy metallic,

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